MOLD REMEDIATION CLOSING REPORT

Smith Property



PROJECT LOCATION

123 Smith Lane West Chester, PA 19382

PROJECT NO. 2020-35

<u>DATE</u> March 26, 2020

PROJECT CONTRACT FOR

Mr and Mrs. Smith

Respectfully Submitted, INX Technology Corporation

John A. Cavanaugh

PROJECT GOAL

Perform Mold Remediation following proven protocols and procedures to successfully remove surface contamination and treat remaining surfaces to inhibit future mold growth.

MOLD REMEDIATION PROTOCOL

SCOPE OF WORK

Basement and Two (2) Crawlspaces

- 1. Set up entire Basement and Crawlspaces as a single negative air containment with HEPA air equipment exhausting outside.
- 2. Remove and dispose of suspended ceiling.
- 3. Remove all insulation in crawlspaces and rim joist areas.
- 4. Remove and dispose of all remaining paneling and significantly contaminated or water damaged nonstructural studwork.
- 5. Abrade and HEPA vacuum all visibly contaminated surfaces including floors, walls, joists, subfloor, piping, exterior ductwork, and any other structural members to remove mold growth and particulate.
- **6.** Wipe all surfaces with disposable towels dampened with disinfectant to remove residual surface mold growth spore deposits.
- 7. Continue air scrubbing and perform final HEPA cleaning of Basement floor.
- **8.** Utilize airless sprayer to apply Zinssers white mold proof coating to all floor joists and subfloor surfaces, and backside of stairs.
- **9.** Upon completion, remove containment materials and remediation equipment.

1st & 2nd Floor - General HEPA Cleaning

- 1. Set up multiple HEPA rated air scrubbers and rotate during cleaning.
- 2. Remove and dispose of carpet and padding in Family Room.
- 3. Perform HEPA vacuuming of all surfaces to remove visible mold growth and residual mold spore deposits.
- 4. Run HEPA air scrubber for a minimum of 8 Hrs. to remove residual airborne spore after remediation

INSPECTION FINDINGS

Containment Area – No visible growth or contamination was observed in containment area. All surfaces in containment area were dry. All remediated surfaces have been coated with Zinssers Perma-White Mold Proof Coating.

POST REMEDIATION TESTING

On March 24, 2020, a Post Remediation Inspection and sampling protocol was performed by **John A. Cavanaugh, INX Technology Corporation.**

TESTING EQUIPMENT AND MEDIA

<u>Total Spore Count (Air Sample) -</u> Using a Zefon International Bio-Pump Model ZBP-100 with Air-O-Cell Cassettes. Samples were taken at 15 liters/minute for 5 minutes totaling 75 liters of air

Microbiological Tests were taken in several selected areas.

Samples are as follows:

Outside - 1- Air Sample, Microscopic Fungal/Mold Analysis
Basement - 1- Air Sample, Microscopic Fungal/Mold Analysis
1st Fl Kitchen - 1- Air Sample, Microscopic Fungal/Mold Analysis

RESULTS EVALUATION CRITERIA - Indoor concentrations and distribution should be generally consistent with and/or lower than outdoor concentrations and distributions with no Stachybotrys spore types present in the indoor samples.

NOTABLE LABORATORY RESULTS:

All Post Remediation Indoor Air Samples detected EXTREMELY LOW levels of common Mold types, and were **SATISFACTORY** based on the Results Evaluation Criteria. All mold levels

LAB RESULTS – POST REMEDIATION AIR SAMPLES

Date: 3/25/2020



Project Number: 2020-35 P.O. Number: J 202035 Project Name: Multani Res Collected Date: 3/24/2020 Received Date: 3/25/2020 9:45:00 AM SanAir ID Number 20013822 FINAL REPORT 3/25/2020 1:08:49 PM

Air Cassette Analysis

SanAir ID Number	200	20013822-001			20013822-002			20013822-003		
Analysis Using STL		105C			105C			105C		
Sample Number		INX-01			INX-02			INX-03		
Sample Identification		Outside			Basement			1st FI Kitchen		
Sample Type	Air Cass	Air Cassette - Air-O-Cell			Air Cassette - Air-O-Cell			Air Cassette - Air-O-Cell		
Volume		75 Liters			75 Liters			75 Liters		
Analytical Sensitivity	13	13 Count/M ³			13 Count/M ³			13 Count/M ³		
Background Density		1+			1+			2		
Fungal Identification	Raw Count	Count/M ³	%	Raw Count	Count/M ²	%	Raw Count	Count/M ²	%	
Ascospores	1	13	9		-,	1111000	(C)	A 100 M	2010/115	
Basidiospores	10	133	91	1	13	>99	2	27	>99	
TOTAL	11	147		1	13		2	27		

Signature: Omy+ain

Reviewed:

Johnston War

Date: 3/25/2020

COMPARISON GRAPH

No organism counts exceed the thresholds. Therefore, no valid chart can be produced.

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ORGANISM DESCRIPTION



Name: INX Technology Corp of PA

Address: PO Box 288

Exton, PA 19341

Phone: 610-692-7374

SanAir ID Number 20013822 FINAL REPORT 3/25/2020 1:08:49 PM

Project Number: 2020-35 P.O. Number: J 202035 Project Name: Multani Res Collected Date: 3/24/2020

Received Date: 3/25/2020 9:45:00 AM

Organism Descriptions

The descriptions of the organisms presented are derived from various reference materials. The laboratory report is based on the data derived from the samples submitted and no interpretation of the data, as to potential, or actual, relating effects resulting from exposure to the numbers of organisms found, can be made by laboratory personnel. Any interpretation of the potential health effects of the presence of this organisms must be made by qualified professional personnel with first hand knowledge of the sample site, and the problems associated with that site.

Ascospores - From the fungal Subphylum Ascomycotina. Ascospores are ubiquitous in nature and are commonly found in the outdoor environment. This class contains the "sac fungi" and yeasts. Some ascospores can be identified by spore morphology, however, some care should be excercised with regard to specific identification. They are identified on tape lifts and non-viable analysis by the fact that they have no attachment scars and are sometimes enclosed in sheaths with or without sacs. Ascomycetes may develop both sexual and asexual stages. Rain and high humidity may help asci to release, and dispurse ascospores, which is why during these weather conditions there is a great increase in counts. Health Effects: This group contains possible allergens.

Basidiospores - From the Subphylum Basidiomycotina which contains the mushrooms, shelf fungi, and a variety of other macrofungi. They are saprophytes, ectomycorrhizal fungi or agents of wood rot, which may destroy the structure wood of buildings. It is extremely difficult to identify a specific genera of mushrooms by using standard culture plate techniques. Some basidiomycete spores can be identified by spore morphology; however, some care should be exercised with regard to specific identification. The release of basidiospores is dependant upon moisture, and they are dispersed by wind.

Health Effects: Many have the potential to produce a variety of toxins. Members of this group may trigger Type I and III fungal hypersensitivity reactions. Rarely reported as opportunistic pathogens.

CONCLUSION

Based on the Post Remediation Inspection & Testing Results, the remediation efforts have been successful to remove any residual surface contamination and mold spore deposits and significantly reduce airborne contaminant down to acceptable "normal" levels.

RECOMMENDATIONS

Standard Recommendation - Maintain Relative Humidity in this property at or below 55% RH to minimize the potential for future mold growth.

No further recommendations are suggested at this time.

WARRANTY

All remediation work is warranted for Five (5) years against future mold growth on remediated surfaces. The warranty is transferrable to any and all owners during the 5 year warranty period. Improper maintenance, roof damage and/or untreated water intrusion issues may limit and/or void warranty.

FOLLOW-UP INSPECTION

Included with every remediation project is a "free" follow-up inspection of the Remediation Area(s). This inspection can be performed anytime between the period of 6 to 12 months from the date of this report. Please contact the office at 610-692-7374 to schedule this inspection.

PHOTOGRAPHS - Before & After Remediation





Crawlspace No.1 - Before & After mold remediation and application of white mold-proof coating.





Crawlspace No. 2 - Before & After mold remediation and application of white mold-proof coating.





Visible mold growth observed on Basement ceiling tiles, joists, and subfloor before remediation.

PHOTOGRAPHS

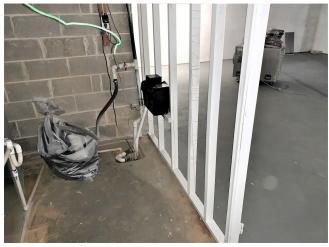




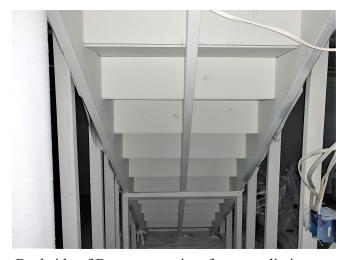
Basement Ceiling after suspended ceiling removal, surface mold remediation and application of white mold-proof coating.



Basement Utility Room observed with heavy mold on backside of paneling and studwork.



Utility Room after remediation and application of white mold proof coating.



Backside of Basement stairs after remediation.



1st Floor Family Room after carpet & padding removal and surface HEPA Cleaning and Disinfection

PHOTOGRAPHS - Post Remediation Air Testing



Location of Outside Air Sample



Location of Basement Air Sample near Crawlspace



Location of 1st Floor Kitchen Air Sample

PRODUCT INFORMATION SHEETS

Disinfectant - Product Data



Foster®40-80™ Disinfectant

EPA REGISTERED • READY-TO-USE

Bactericidal and Fungicidal

Formulated for Residential, Commercial, Institutional and Industrial Use







Foster® 40-80™ **Disinfectant**

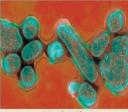
Foster® products, the leading brand of EPA registered, disinfectants, have been sold to the indoor air quality (IAQ) market since 1992. Foster products have been proven

and other institutional and industrial facilities, such as

effective against odor-causing bacteria and fungi when used in water damage restoration situations on porous

Features and Benefits

- Ready-to-use formula provides added convenience.
- EPA registered, all-in-one disinfectant, cleaner, effective against a broad spectrum of microbes.
- As a disinfectant, use on washable hard, non-porous, inanimate environmental surfaces such as tables, countertops, floors, walls, stair rails, door knobs, and areas, hotels, health clubs and spas.
- carpet cushions, countertops, cupboards, doorknobs, appliance exteriors, showers, tubs, telephones, a Foster antimicrobial coating (when specified).
- Cleans and removes residual mold and mildew.
- For home, hospital, institutional and industrial use.
- Easy to apply with wipe, cloth, mop, sponge or spray.





Technical Data

Type: Quaternary Ammonium Chloride

Weight/U.S. Gallon (ASTM D 1475): 8.2 lbs. (0.98kg/l)

Odor: Fresh mild scent
Average Coverage Range: Dependent upon application method and the surface
it is applied to. Apply in sufficient quantity to ensure the surface remains wet for
at least ten (10) minutes.

Alkalinity (ASTM E 70): 10-11pH

- Wet flammability (ASTM D 3278); No flash to boiling - 212°F (100°C)

Foster 40-60 is a one-step (hospital use) disinfectant, Bactericidal according to the current AOAC Use-Dilution Test Method, Fungicidal according to the AOAC Fungicidal Test and Virucidal according to the virucidal qualifications modified in the presence of 5% organic serum against:

BACTERIA

Pseudomonas Aeruginosa Staphylococcus Aureus (Staph) Salmonella Choleraesuis Salmonella Choleresus
Acinatobacter Baumanni
Brevibacterjum Ammoniagenes
Campylobacter Jejuni
Enterbacter Aerogenes
Enterococcus Faecalis
Enterococcus Faecalis
Enterococcus Faecalis
Enterococcus Faecalis
Enterococcus Faecalis
Enterococcus Faecalis
Esterococcus
Esterococcus
Enterococcus
Enterococcus
Enterococcus
Enterococcus
Enterococcus
Esterocis
Esteroc

Salmonella Typhi Samtoliela typin
Serratia Marcescens
Shigella Dysenteriae
Staphylococcus Aureus - Mathicillin-Resistant (MRSA)
Staphylococcus Aureus - Multi-Drug Resistant
Staphylococcus Aureus - Vancornyon Intermediate
Resistant (VISA)

Streptococcus Pyogenes (Strep) Vibrio Cholerae

VIBUSES
"Hepatitis B Virus (HBV)
"Hepatitis C Virus (HCV)
"Herpes Simplex Virus Type 1
"Herpes Simplex Virus Type 2 *HIV-1 (AIDS virus)

*Influenza Type A / Brazil (Influenza)
*Respiratory Syncytial Virus

ARMAL VIRUSES
Avan Influenza Viruses (H3N2 and H5N1)
Avian Infectious Bronchiris Virus
Carine Distemper Virus
Newcastle's Disease Virus
Pseudorabies Virus ANIMAL VIRUSES

FUNGI Tricophyton Mentagrophytes Aspergillus Niger

FPA Registration Number: 6836-152-63836

For additional information, visit www.fosterproducts.com





First Defense[™]

Disinfectant (40-80)

Product Data Sheet

PROPERTIES

TYPE:

Quaternary Ammonium Chloride

VOLATILE:

Water

AVERAGE WEIGHT/U.S. GALLON (ASTM D1475):

8.2 lbs. (0.98 kg/l)

APPLICATION CONSISTENCY:

Wipe, cloth, mop, sponge or coarse spray

ODOR:

Fresh Mild Scent

AVERAGE COVERAGE RANGE:

Dependent upon the method of application and the surface. Apply in sufficient quantity to ensure that the surface remains wet continuously for at least ten (10) minutes.

ALKALINITY (ASTM E70):

10 - 11 pH

SAFETY:

Wet flammability (ASTM D3278) No flash to boiling, 212°F (100°C)

ATTRIBUTES

Foster® First Defense™ Disinfectant (40-80) is a convenient, ready-to-use EPA Registered formulation that kills odor-causing bacteria and inhibits the growth of mold and mildew. This all-in-one "disinfectant, cleaner, fungicide, mildewstat, germicide and deodorizer" is designed for use in water damage restoration and for clean-up of mold and microbe impacted porous and non-porous materials. For homes, hospitals, institutions and industrial use.

First Defense Disinfectant kills household germs and is effective against a broad spectrum of bacteria, including Pseudomonas Aeruginosa (Pseudomonas), Staphylococcus Aureus (Staph), and Streptococcus Pyogenes (Strep), is virucidal*, and inhibits the growth of mold and mildew (fungicidal), including Trichophyton Mentagophytes, when used as directed.

First Defense Disinfectant is effective against odor-causing bacteria and fungi (in water damager restoration situations) on semi-porous and porous materials including carpets, carpet cushion, sub floors, drywall, trim and frame lumber. It helps clean and remove residue resulting from flood and water damage.

First Defense Disinfectant may also be used to disinfectant washable hard, non-porous surfaces such as tables, floors, walls, countertops, coils and drain pans of air conditioning and refrigeration equipment and heat pumps and hard, non-porous surfaces such as metal, stainless steel, fiberglass (shower stalls and sinks), finished woodwork, vinyl or plastic upholstery, as well as hard non-porous inanimate environmental surfaces found in hospitals, food processing areas, homes, restaurants, hotels, health clubs and spas.

LIMITATIONS:

Do not store or apply to surfaces below 32°F (0°C) or above 100°F (38°C). |

Not for use on duct liner insulations or in HVAC systems.

Consult the Material Safety Data Sheet for additional information.

Do not use inside HVAC ducts, vents or on duct liner insulations.

KEEP OUT OF REACH OF CHILDREN.

DO NOT DILUTE.

EPA Registration No.6836-152-63836 EPA Est. No. 63836-TX-00105/08

Visit us on the web at www.fosterproducts.com

Foster and First Defense are trademarks of Specialty Construction Brands, Inc.

Specialty Construction Brands, Inc.

1105 South Frontenac Street • Aurora, IL 60504 • 800-231-9541 • fax 800-942-6856

APPLICATION GUIDE FOR Foster® First Defense™ Disinfectant

MATERIAL PREPARATION: DO NOT DILUTE! Foster® First Defense™ Disinfectant is full strength. Any attempt to dilute will drastically reduce the efficacy of the material.

SITE PREPARATION: Follow all procedures mandated by Federal, State, and local authorities regulating the use of EPA Registered disinfectants, if any

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected. Refer to product label for more information. Note: This product is not for use on medical device surfaces.

CLEAN AND DEODORIZE: Apply undiluted to surfaces with a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

WATER DAMAGE RESTORATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME,

INSTITUTIONAL, INDUSTRIAL, AND HOSPITAL USE. This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and farme lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Sewer Backup and River Flooding: During mitigation procedures remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a coarse spray device before and after cleaning and extraction. Carpets, Carpet Cushion and Other Porous Materials such as Sub Floors, Drywall, Trim and Frame Lumber, Tackless Strip and Paneling: For water damage from a clean source, extract excess water. Test hidden area for colorfastness. Remove gross filth or heavy soil. Saturate all affected areas with a coarse spray device. Roll, brush or agitate into the materials and allow the materials to remain wet for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly. Special Instructions for Cleaning Carpet Against Odor Causing Bacteria: Use this product in industrial and institutional areas such as homes, motels, hotels, nursing homes, schools and hospitals. Use on wet cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness. Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the manufacturer's direction.

DISINFECTION / VIRUCIDAL*/FUNGICIDAL / MOLD & MILDEW CONTROL DIRECTIONS: Apply First Defense Disinfectant undiluted to hard, nonporous surfaces, thoroughly wetting the surfaces with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is recommended. For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from surface; rub with brush, sponge or cloth. Avoid breathing spray. For fungicidal activity: First Defense Disinfectant is an effective one-step fungicide against Trichophyton mentagrophytes when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. For mold and mildew. Repeat treatment every 7 days or more often if new growth appears. Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes. For Animal Care Disinfection Directions: For cleaning and disinfecting hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables, catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Empty all feeding and watering appliances. Saturate surfaces with First Defense Disinfectant for a period of 10 minutes. Wipe or allow to air dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used for removing litter and manure. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings and other closed spaces. Do not house

KILLS HIV-1 AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WTH BLOOD / BODY FLUIDS in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids and in which the surfaces / objects likely to be soiled with blood or body fluids and in which the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OR HBV OR HCV ON SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS.

Personal protection: Clean-up should always be done wearing protective gloves, gowns, masks and eye protection. Cleaning procedure: Blood and other body fluids containing HIV or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of First Defense Disinfectant. Contact time: Leave surface wet for 1 minute (60 seconds) for HIV-1 and 10 minutes for HBV and HCV. Use a 10 minute contact time for disinfection against all other viruses, bacteria and fungi claimed. Disposal of infectious material: Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

PRECAUTIONS and First Aid: Refer to product label and MSDS sheet for information.



CUSTOMER SERVICE: 800-231-9541

ADEQUATE TESTS: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. Refer to product label before use.

For professional use only. Keep out of reach of children.

Consult Material Safety Data Sheet and container label for further information.

MMR-MOLD STAIN REMOVER



DESCRIPTION:

Commercial grade mold stain remover formulated to remove mold stains present on wood and other hard surfaces.

ACTIVE:

A proprietary blend of EPA registered ingredients including surfactants and an aggressive hypochlorite solution.

BENEFITS:

Eradicates mold stains on contact. Ideal for unconditioned areas like crawl spaces and attics. Ready-to-Use formulation.

WHY USE MMR?

- MMR is preferable to most available mold stain removers, including hydrogen peroxides.
 It provides great stain removing capabilities.
- MMR is formulated for the porous nature of wood and similar building materials.
- MMR covers approximately 250 surface ft/g.
- MMR is biodegradable and non-flammable.
- MMR can be easily sprayed in attics and crawl spaces. It's not disruptive like media blasting and does not require insulation removal.
- MMR also works great on masonry, composite decking, hardiboard, etc.



Mold Proof White Coating - Product Data



Technical Data Bulletin

Zinsser (UK) Ltd. Wetherby House, 7 Market Place, Wetherby, West Yorkshire, LS22 6LG England

Art RPM Company

PERMA-WHITE®

Mould & Mildew-Proof* Exterior Paint

* PERMA-WHITE® contains a mildeworde to prevent growth of mould & mildew on the paint film only.

A high performance 100% acrylic, all purpose, exterior paint uniquely formulated to beautify and protect exterior surfaces while preventing mold & mildew growth on the paint film for FIVE YEARS. **PERMA-WHITE*** passes severe ASTM D5590 tests even when subjected to combined strains of mold & mildew spores. **PERMA-WHITE*** produces a beautiful, tough, durable, washable finish that withstands moisture and resists dirt pickup-key conditions that promote mold & mildew growth on the paint film and eventually cause paint failure- and is backed by a 15 YEAR DURABILITY guarantee (see limited warranty). Ideal for Commercial and Industrial jobs as well as for Residential use.

Selection Data

Generic Type - Latex acrylic resin, water-base, exterior finish paint. Available in satin and semi-gloss sheens.

Performance Characteristics

- Mold & Mildew-Proof™ paint film guaranteed for 5 years
 15 Year durability guarantee resists chalking, fading,
- peeling and blistering (see warranty)
- Self-priming bonds to glossy and hard-to-paint surfaces
- · Easy application properties, high hide, great touch-up
- · Moisture and dirt resistant finish
- Tintable to off-white, pastel or medium earth-tone colors
- · Low odor, fast drying recoat in 2 hours
- · Soap and water cleanup

Recommended Uses - For application to exterior siding, foundations, doors, trim, window frames, shutters and related paintable surfaces for any exterior area where mold & mildew are a concern. PERMA-WHITE® can be applied over any existing oil or latex paint.

Color/Tinting - PERMA-WHITE® is bright white but may be tinted to off-white, pastel or medium colors with a maximum of 4 oz. (118 ml) universal colorants per gallon. Start with 75% of the tinting formula for a given color and adjust if necessary. Multiple containers of tinted paint should be intermixed (boxed) to ensure color uniformity.

NOTE: Do not paint vinyl siding with any color darker than the original siding color. Painting with darker colors may cause the siding to warp.



Coverage - A single coat applied at 1.5 mils dried film thickness (DFT) covers approximately 10m²/L. Coverage may vary with the porosity of the surface and the method of application.

Application Data

Application Requirements – 2 coats are required for proper performance and mold & mildew-resistance.

Surfaces - Recommended for painting siding, soffits, fascia, trim, doors, windows, foundations, gutters and downspouts. Also great for painting porch ceilings, trim trellises, fences, etc. May be applied to new or previously painted wood, T-111, hardboard; metals (including aluminum, steel, copper and galvanized metal); PVC; fiberglass: masonry (including stucco, concrete blockpoured concrete and brick). PERMA-WHITE® is self-priming and will develop excellent adhesion to properly prepared surfaces including gloss or semi-gloss paints, and aluminum and vinyl siding without the need for sanding or deglossing. For most jobs, no separate primer is needed. For new, unpainted or severly weathered surfaces prone to bleeding (cedar, redwood, hardboard, plywood) and rusting (iron and other ferrous metals) or brand new vinyl and aluminum prime with Bulls Eye 1-2-3® Primer Sealer. Allow primer to dry at least 24 hours before applying 2 coats of PERMA-WHITE®. If a separate primer is used, we recommend the addition of ADD-2™ PREVENT MILDEW Mildewcide Additive to the primer - especially where mold & mildew is a recurring problem.

Damp Surfaces - PERMA-WHITE® may be applied over damp masonry walls but is not designed to stop active water leaks. Use WATERTITE® Mold & Mildew-Proof™* Waterproofing Paint for masonry prone to water intrusion. PERMA-WHITE® may be used over any quality waterproofing paint to prevent mold and mildew growth on the paint film.

Surface Preparation

Proper surface preparation is important. Surfaces must be clean, sound and free of dirt, dust, grease, soap film, loose paint or other surface contamination. Remove all loose or peeling paint and chalky paint residue. Sand edges of any remaining paint film until smooth. Houses painted before 1978 may contain lead.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. New concrete, masonry and related surfaces must be cured at least 30 days before painting. All existing mold and mildew must be removed before painting. To effectively kill mold & mildew and remove dirt and chalky paint residue, clean surfaces with JOMAX® House Cleaner and Mildew Killer. A solution of one cup household bleach per gallon of water may also be used. Allow solution to remain on surface at least 10 minutes. Rinse with water and allow to dry.

Knots/Sap Streaks - spot prime knots and sap streaks with *B-I-N*[®] Primer Sealer. Knots on new pine should be spot primed with one or two coats of *BULLS EYE*[®] *AMBER SHELLAC*.

Oil- base paints, primers, caulks, and glazing compounds can increase the likelihood of mold & mildew. When necessary, use a latex primer like ZINSSER® BULLS EYE 1-2-3®, and acrylic caulks and glazing compounds.

Application

Shake or stir well before using. Apply with synthetic bristle brush, roller, pad applicator or sprayer. For airless spraying, use a .017 tip and high medium (2000-2500 PSI) pressure. Apply when air and surface temperatures are between 50° and 90°F (100 and 32°C) and humidity is less than 80%. **PERMA-WHITE*** is designed to be used as is. If thinning is necessary (such as with conventional sprayer applications), use only water and no more than 10% by volume (approx. 12 oz/gallon).

Dry Time - Dries in 2 hours. Apply second coat 2 hours or longer after the first. Scrape-resistance over glossy surfaces develops in 7 to 10 days as **PERMA-WHITE**®

Typical Physical Properties

 Solids by Weight
 53% (S), 47% (SG)

 Solids by Volume
 36% (S), 33% (SG)

 Weight (lb./gallon)
 11.1 (S),10.3 (SG)

Required Number of Coats Two

Spread Rate 4.0 mils WFT per coat 1.5 mils DFT per coat

VOC Less than 150 gr/liter >200°F (>93.3°C)

Dry to touch @ 70°F (21°C) 30 minutes Dry to recoat @ 70°F (21°C) 2 hours 7 to 10 days **Cure Time** Gloss/Sheen Levels 850 60° 13-23% 47-53% Satin Semi-Gloss 40-50% 70-80% Shelf Life 60 mos. @ 75°F (24°C) Storage/Handling Store indoors 40° - 80°F (4° - 26°C)

Cleanup - Clean up spills and drips with a wet cloth or rag. Wash application tools in warm, soapy water immediately after use. If product has dried on application tool, soak it overnight in a solution of equal parts household ammonia and water. Follow manufacturer's instructions when cleaning spray equipment.

Freeze/thaw stable

Disposal - Dispose of unused or unwanted product in accordance with local laws regulating water-base coatings.

Limitations

PERMA-WHITE® Mold & Mildew-Proof™* Exterior Paint is not intended for application to floors or exterior floors or decks or any surface subject to water immersion or prolonged contact with water.

Precautions

Safety: CAUTION! Do not get in eyes. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Do not take internally. **KEEP OUT OF REACH OF CHILDREN**.

Storage: To prevent product from skinning over close container after each use. Keep lid tightly closed during storage. Protect from freezing. If contents freeze, thaw to room temperature before using.

NOTE: **PERMA-WHITE**® is formulated with a mildewcide approved for paint use and does not contain mercury or lead compounds.

Limited Warranty

PERMA-WHITE® Mold & Mildew-Proof™* Exterior Paint is guaranteed for five years from the date of application to provide protection of the dried paint film from mildew when two coats are applied according to the label directions. In addition, the dried paint film is guaranteed for fifteen years to resist fading, peeling and blistering. The contents are warranted to be free of defects for two years from date of manufacture. This limited warranty is limited to replacement or refund value of product actually used when supported by proof of purchase. If you have a question, please contact Zinsser (UK) Ltd.

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CAUTION: Read and carefully follow all the information on this technical data bulletin, on the product label, and on the material safety data sheet for this product. To the best of our knowledge the data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact Zinsser (UK) Ltd. to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Zinsser quality control and assume no responsibility for coverage, or injuries from use.

DISCLAIMER

Please note that these results and interpretations are based upon the information gathered during this inspection. Changes in the conditions present at the time of testing including previous weather patterns, activities in the home, maintenance activities and the environmental atmosphere may result in data different from that which was collected. This report is designed to serve as a quittance document, and not to be used to support or refute compliance with any local, state, or federal statutes, or be used in any related medical or legal claims. There are no regulations pertaining to acceptable levels of fungal contamination. Diagnosis of a particular health effect should be left to a medical professional. Health effects in general are not well studied, and dosage, exposure, and sensitivity thresholds are not well known and can potentially vary tremendously depending on various conditions and on the particular individuals. Effects will also vary from species to species within a particular mold genus. Additionally, many ill effects of mold that have been observed recently are the result of modern building design and its lack of adequate ventilation, which can vary from room to room, and building to building. Due to the potential for rapid growth (24 to 48 hours in some cases) of mold-like substances, the inspector and the inspection company cannot be held responsible for a change occurring after the inspection is performed. It has to be pointed out that the interpretation of mold sampling is somewhat ambiguous because there is no legal standard that sets specific limits for indoor concentrations of fungi.

Excluded from this mold inspection is any portion of the building, which is, inaccessible, concealed from view, or cannot be reported on due to circumstances beyond the control of the inspector. It is generally acknowledged that the level of mold spores in or on any structure will determine the extent of the hazard arising from such mold.

It is understood and agreed that the inspection is visual and the report reflects the opinions of the inspector based on those visual observations and laboratory testing of the samples requested at the time of the inspection only. It is understood and agreed that the inspection and report are not intended or considered as a guarantee or warranty, expressed or implied, regarding the adequacy, performance or condition of any inspected structure, item or system. It is understood and agreed that INX Technology Corporation does not make any representation as to the advisability or inadvisability of the purchase, nor intend to reflect the value of the property. INX assumes no liability and shall not be liable for any mistakes, omissions, or errors of judgment beyond the cost of this report. This limitation of liability shall include and apply to all consequential damages, bodily injury and property damage. INX also reserves the right to change conclusions and/or recommendations based on any additional information gathered or history obtained about this property.